Application No.: RCE of 10/055,075

This listing of claims will replace all prior versions, and listings, of claims in the application.

Listing of Claims: (For convenience, claim numbering continues as per the prosecution of the parent application)

1-33 (Canceled)

80.

34. (Currently Amended) A sterile solution comprising:

disinfectant;

detergent; and

at least 0.5 % by weight of the solution of organic acid having a pKa of no greater than 5;

said disinfectant, detergent, and organic acid being present in amounts effective for removing a smear layer from a prepared endodontic surface.

- 35. (Original) The solution of claim 34 wherein the disinfectant is an antibiotic.
- 36. (Original) The solution of claim 35 wherein the antibiotic is substantially stable in acidic solution.
- 37. (Original) The solution of claim 36 wherein the antibiotic is a tetracycline.
- 38. (Currently amended) The solution of claim 37 wherein the antibiotic is doxycy cline.
- 39. (Original) The solution of claim 34 wherein the detergent is a Food and Drug Administration-approved additive.
- 40. (Original) The solution of claim 39 wherein the detergent is a sorbitan ester compound.
- 41. (Original) The solution of claim 40 wherein the detergent is a polysorbate compound.
- 42. (Original) The solution of claim 41 wherein the polysorbate compound is polysorbate

DOCKET NO.: D-6901 RCE Application No.: RCE of 10/055,075

- 43. (Original) The solution of claim 34 wherein the organic acid has a pKa between 1.5 and 5.
- 44. (Original) The solution of claim 43 wherein the organic acid has a pKa between 2 and 5.
- 45. (Original) The solution of claim 44 wherein the organic acid has a pKa between 2.75 and 3.75.
- 46. (Original) The solution of claim 45 wherein the organic acid is citric acid.
- 47. (Currently Amended) The solution of claim 34 wherein the disinfectant is present in an amount of from about 1 to 5 percent by weight of the solution.
- 48. (Currently Amended) The solution of claim 34 wherein the disinfectant is present in an amount of from about 2 to 4 percent by weight of the solution.
- 49. (Currently Amended) The solution of claim 34 wherein the disinfectant is present in an amount of about-3 percent by weight of the solution.
- 50. (Currently Amended) The solution of claim 34 wherein the detergent is present in an amount of from about 0.1 to 1.5 percent by weight of the solution.
- 51. (Currently Amended) The solution of claim 34 wherein the detergent is present in an amount of from about-0.25 to 1 percent by weight of the solution.
- 52. (Currently Amended) The solution of claim 34 wherein the detergent is present in an amount of about 0.5 percent by weight of the solution.
- 53. (Currently Amended) The solution of claim 34 wherein the acid is present in an amount of up to from about 0.5 to 10 percent by weight of the solution.
- 54. (Currently Amended) The solution of claim 34 wherein the acid is present in an amount of from about 3 to 6 percent by weight of the solution.

Application No.: RCE of 10/055,075

(Currently Amended) The solution of claim 34 wherein the acid is present in an 55. amount of from about 4 to 5 percent by weight of the effective to yield a pH of the solution of less than 4.

- (Currently Amended) The solution of claim 34 wherein the composition of the 56. solution is about 3% disinfectant, 0.5% detergent, and 4.25% acid by weight.
- 57. (Original) The solution of claim 34 wherein the solution comprises doxycycline, polysorbate 80, and citric acid.
- 58. (Currently Amended) The solution of claim 57 wherein the composition of the solution is about 3% doxycycline, 0.5% polysorbate 80, and 4.25% citric acid by weight.
- 59. (Canceled)
- (Previously presented) The solution of claim 34 wherein said amounts are effective 60. for substantially sterilizing said surface.
- (Currently Amended) A sterile solution comprising: 61.

disinfectant;

detergent; and

at least 0.5 % by weight of the solution of organic acid having a pKa of no greater than 5;

said disinfectant, detergent, and organic acid being present in amounts effective for removing a smear layer from a prepared orthopaedic surface.

- (Currently Amended) The solution of claim 61 wherein the composition of the 62. solution is about 3% disinfectant, 0.5% detergent, and 4.25% acid by weight.
- (Previously presented) The solution of claim 61 wherein the solution comprises 63. doxycycline, polysorbate 80, and citric acid.

Application No.: RCE of 10/055,075

- (Currently Amended) The solution of claim 63 wherein the composition of the 64. solution is about 3% doxycycline, about 0.5% polysorbate 80, and about 4.25% citric acid by weight.
- (Previously presented) The solution of claim 61 wherein said amounts are effective 65. for substantially sterilizing said surface.
- (Currently Amended) A sterile solution comprising: 66.

disinfectant;

detergent; and

at least 0.5 % by weight of the solution of organic acid having a pKa no greater than

<u>5</u>;

said disinfectant, detergent, and organic acid being present in amounts effective for removing a smear layer from a prepared tooth surface.

- (Currently Amended) The solution of claim 66 wherein the composition of the 67. solution is about 3% disinfectant, 0.5% detergent, and 4.25% acid by weight.
- (Previously presented) The solution of claim 66 wherein the solution comprises 68. doxycycline, polysorbate 80, and citric acid.
- 69. (Currently Amended) The solution of claim 68 wherein the composition of the solution is about 3% doxycycline, about 0.5% polysorbate 80, and about 4.25% citric acid by weight.
- (Previously presented) The solution of claim 66 wherein said amounts are effective 70. for substantially sterilizing said surface.
- 71. (Currently Amended) A sterile solution comprising: disinfectant;

Application No.: RCE of 10/055,075

detergent; and

at least 0.5% by weight of the solution of organic acid having pKa of no greater than

<u>5</u>;

said disinfectant, detergent, and organic acid being present in amounts effective for removing

a smear layer from a surface prepared for dental reconstruction or restoration or from a

prepared periodontal surface.

72. (Currently Amended) The solution of claim 71 wherein the composition of the

solution is about 3% disinfectant, 0.5% detergent, and 4.25% acid by weight.

73. (Previously presented) The solution of claim 71 wherein the solution comprises

doxycycline, polysorbate 80, and citric acid.

74. (Currently Amended) The solution of claim 73 wherein the composition of the

solution is about 3% doxycycline, about 0.5% polysorbate 80, and about 4.25% citric acid by

weight.

75. (Currently Amended) The solution of claim 71 wherein said organic acid is present in

an amounts are effective for adjusting the pH of the solution to 4 or less substantially

sterilizing said surface.

76 - 80 (Canceled)